

**REMARKS**

Claims 7, 19, and 24 have been amended. Claim 25 has been added. Hence, Claims 1 - 25 are pending in the Application.


All the claim amendments are fully supported by the specification, and therefore do not constitute new matter. Entry of the claim amendments is respectfully requested.

The Examiner is respectfully requested to contact the undersigned by telephone if it is believed that such contact would further the examination of the present application.

Respectfully submitted,

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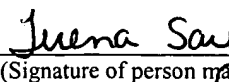
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## MARKED-UP CLAIMS

- 1 1. (Not Amended) A method for presenting data from a set of one or more tables as a set of  
2 objects, the method comprising the steps of:  
3 reading data from one or more rows of the set of one or more tables;  
4 generating an object id based on values from said one or more rows; and  
5 presenting data from said one or more rows as an object having said object id.
- 1 2. (Not Amended) The method of Claim 1, wherein the step of generating an object id  
2 based on values includes generating an object id based on values from one or more rows  
3 of a relational table that belongs to the set of one or more tables.
- 1 3. (Not Amended) The method of Claim 1, further comprising the step of  
2 generating a reference to the object based on the object id.
- 1 4. (Not Amended) The method of Claim 3, further comprising the step of accessing the  
2 object based on the reference generated for the object.
- 1 5. (Not Amended) The method of Claim 1, wherein:  
2 the method further includes the steps of:  
3 receiving a request to define a view, said request specifying one or more columns  
4 of the set of one or more tables containing values used to generate said  
5 object id;

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6 in response to receiving the request to define the view, storing specification data  
7 that specifies the one or more columns; and  
8 the step of generating an object id based on values from said one or more rows includes  
9 determining how to generate the object id by inspecting said specification data.

1 6. (Not Amended) The method of Claim 5, wherein the step of receiving a request to define  
2 a view includes receiving a request that specifies the one or more columns as including at  
3 least one column from a relational table.

1 7. (Amended) A method for presenting, as an [object,] object data from a set of one or more  
2 tables residing in one or more databases, the method comprising the steps of:  
3 reading a first set of data from a plurality of [fields] cells from the set of one or more  
4 tables;  
5 wherein said plurality of [fields] cells includes a [field] cell from each of a plurality of  
6 rows;  
7 generating a column object based on said first set of data; and  
8 presenting a second set of data from said set of one or more  
9 tables as said object that has said column object as an attribute.

1 8. (Not Amended) The method of Claim 7, wherein the step of reading data from one or  
2 more rows includes reading data from one or more rows of at least one relational table.

1 9. (Not Amended) The method of Claim 7, wherein the step of generating a column object  
2 includes generating a collection object.

1 10. (Not Amended) The method of Claim 9, wherein the step of generating a collection  
2 object includes generating said collection object as a list of elements belonging to a single  
3 data type.

1 11. (Not Amended) The method of Claim 9, wherein the step of generating a collection  
2 object includes generating said collection object as a nested table.

1 12. (Not Amended) The method of Claim 9, wherein the step of generating a column object  
2 includes generating a column object belonging to a user specified object type.

1 13. (Not Amended) The method of Claim 9, where the step of generating a column object  
2 includes generating a column object that is a reference to another object.

1 14. (Not Amended) The method of Claim 13, wherein the step of generating a column object  
2 includes generating a column object that is a reference to an object presented by an object  
3 view.

1 15. (Not Amended) The method of Claim 13, wherein the step of generating a column object  
2 includes generating a column object that is a reference to an object residing in a database.

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1 16. (Not Amended) A computer system, comprising:  
2 a processor;  
3 a memory coupled to said processor;  
4 a set of one or more tables, said set of one or more tables containing one or more rows;  
5 said processor configured to read data from one or more rows of the set of one or more  
6 tables;  
7 said processor configured to generate an object id based on values from said one or more  
8 rows; and  
9 said processor configured to present data from said one or more rows as an object having  
10 said object id.

1 17. (Not Amended) The computer system of Claim 16, wherein said values from said one or  
2 more rows includes values from one or more rows of a relational table that belongs to  
3 said set of one or more tables.

1 18. (Not Amended) The computer system of Claim 16, further comprising:  
2 said processor configured to receive a request to define a view, said request specifying  
3 one or more columns of the set of one or more tables containing values used to  
4 generate said object id;  
5 said processor configured to respond to receiving the request to define the view by  
6 storing specification data that specifies the one or more columns; and

7 said processor configured to generate the object id based on values from said one or more  
8 rows by determining how to generate the object id by inspecting said specification  
9 data.

1 19. (Amended) A computer system, comprising:

2 a processor;

3 a memory coupled to said processor;

4 one or more databases;

5 a set of one or more tables contained in said one or more databases;

6 said processor configured to read a first set of data from a plurality of [fields] cells from

7 one or more rows from the set of one or more

8 tables;

9 wherein said plurality of [fields] cells includes a [field] cell from each of a plurality of

10 rows;

11 said processor configured to generate a column object based on said first set of

12 data; and

13 said processor configured to represent a second set of data from said set of one or more

14 tables as said object that has said column object as an attribute.

1 20. (Not Amended) A computer-readable medium carrying one or more sequences of one or

2 more instructions for presenting data from a set of one or more tables as a set of objects,

3 wherein the execution of the one or more sequences of the one or more instructions

4 causes the one or more processors to perform the steps of:

5 reading data from one or more rows of the set of one or more tables;  
6 generating an object id based on values from said one or more rows; and  
7 presenting data from said one or more rows as an object having said object id.

1 21. (Not Amended) The computer readable medium Claim 20, wherein the step of  
2 generating an object id based on values includes generating an object id based on values  
3 from one or more rows of a relational table that belongs to the set of one or more tables.

1 22. (Not Amended) The computer readable medium of Claim 21, wherein:  
2 the one or more sequences of instructions includes one or more instructions for  
3 performing the steps of:  
4 receiving a request to define a view, said request specifying one or more columns  
5 of the set of one or more tables containing values used to generate said  
6 object id;  
7 in response to receiving the request to define the view, storing specification data  
8 that specifies the one or more columns; and  
9 the step of generating an object id based on values from said one or more rows includes  
10 determining how to generate the object id by inspecting said specification data.

1 23. (Not Amended) The computer readable medium of Claim 22, wherein the step of  
2 receiving a request to define a view includes receiving a request that specifies the one or  
3 more columns as including at least one column from a relational table.

1 24. (Amended) A computer-readable medium carrying one or more sequences of one or more  
2 instructions for presenting, as an object, data from a set of one or more tables residing in  
3 one or more databases, wherein the execution of the one or more sequences of the one or  
4 more instructions causes the one or more processors to perform the steps of:  
5 reading a first set of data from a plurality of [fields] cells from the set of one or more  
6 tables;  
7 wherein said plurality of [fields] cells includes a [field] cell from each of a plurality of  
8 rows  
9 generating a column object based on said first set of data; and  
10 presenting a second set of data from said set of one or more tables as said object that has  
11 said column object as an attribute.

1 25. (New) A method for presenting, as an object, data from a set of one or more tables  
2 residing in one or more databases, the method comprising the steps of:  
3 reading a first set of data from one or more fields of a plurality rows from a set of one or  
4 more tables;  
5 generating a column object based on said first set of data; and  
6 presenting a second set of data from said set of one or more tables as said object that has  
7 said column object as an attribute.